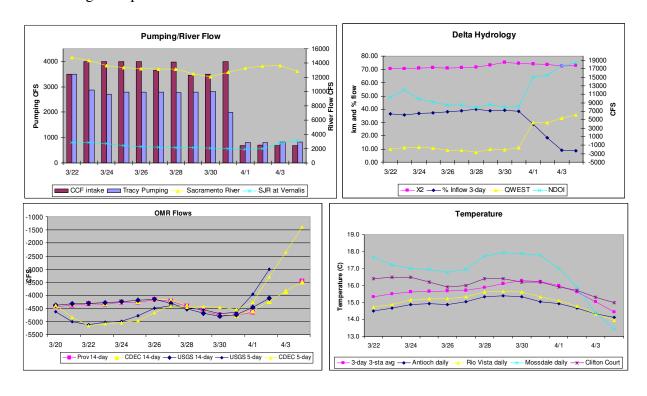
Recommendation for the week of April 5, 2010:

The SWG recommended OMR flows no more negative than -5,000 cfs. The Working Group agreed that the level of risk to larval delta smelt was low, given that no salvage of larvae have occurred so far this year and the latest survey data suggest that the greatest densities of delta smelt are in the Sacramento River and outside the influence of the pumps. The Working Group will continue to monitor salvage, survey data, and hydrological conditions and reconvene April 12.

- 1) Current environmental data.
- Water temperature for the 3 station average is 14.4°C.
- OMR USGS 14-day and 5-day tidally-averaged OMR as of April 2 is, respectively, -4,103 cfs and -2,994 cfs. The 14-day and 5-day OMR average estimate from CDEC as of April 4 is, respectively, -3,470 cfs and -1,377 cfs. The 14-day and 5-day provisional estimate of OMR flow as of March 28 is, respectively, -3467 cfs and -1377 cfs.
- **Flow** Sacramento River inflow is 12,881 cfs and San Joaquin 3,166 cfs. X₂ is 72.80km. As of April 4, E/I ratio is 8.7%, QWEST is 6,179 cfs and NDOI is 18,421 cfs. The graphs below show the most recent trends in Delta hydrology and water quality that were evaluated by the Working Group.



2) Delta fish monitoring:

20mm Survey 2 was in the field March 29 through April 1. All tows from 27 of 47 stations have been processed. Three delta smelt larvae have been collected from stations 726 and 707 on the lower Sacramento River and the SDWSC. The larvae ranged in size from 5 to 6mm in length. One adult was collected in the SDWSC (at station 719). The highest densities of longfin smelt larvae were at the confluence area with smaller densities in the Sacramento River, Cache Slough complex, and the north Delta. Smelt Larval Survey #6 was in the field March 23 and 24. 30 of 35 stations have been fully processed. Six delta smelt larvae were reported from stations 706 and 716. Size ranged from 5 to 8mm in length. No additional delta smelt larvae are anticipated in the remaining samples. The Spring Kodiak Trawl #4 is in the field this week. Results from larval surveys, SKT, and 20mm Surveys are available online at: http://www.delta.dfg.ca.gov/delta.

3) Salvage

As of March 31, adult salvage had reached the concern level of 92. The total authorized take for adults under the Biological Opinion was 123, cumulative, for the season.

Larval sampling is ongoing at the CVP and SWP facilities. No longfin or delta smelt larvae have thus far been salvaged this season. Total authorized take for larval delta smelt in April is 7 fish (expanded), with a Concern Level of 5 fish, expanded.

4) Expected Project Operations

The Projects are presently managing to meet the NMFS RPA action IV.2.1. Vernalis flow will be 3000 cfs from April 1 through 24 and May 25 through 31. Vernalis flow will be 3200 cfs from April 25 through May 24 to meet the VAMP flow schedule. Combined exports will be at 1500 cfs for the entire 60 day period.

5) Particle Tracking Modeling

No PTM run was requested for this week.

6) Discussion for Recommendation

The Working Group reviewed and discussed all relevant data from fish surveys, Delta monitoring, salvage, and planned Project operations.

The juvenile protective phase of the biological opinion (RPA Component 2; Action 3 in Attachment B) is in effect. This action will continue until June 30 or when the 3-day mean water temperature at Clifton Court Forebay reaches 25^oC, whichever occurs earlier.

Component 2, Action 3 of the biological opinion, which is intended to protect larvae and juvenile delta smelt, includes a range of OMR flow from -1,250 cfs to -5,000 cfs. The BO provides guidance for the assessment of the risk of entrainment of larvae and juveniles and for

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determining the appropriately-protective OMR flows within that range for any given week. The BO (pp 353-354) specifies that if entrainment risk is low, OMR flows could be expected to remain as negative as -5,000 cfs, but if entrainment risk is higher, OMR flows would be set so as to reduce that risk. The risk factors are (1) evidence (i.e., from survey data) that delta smelt are present in the South or Central Delta, and (2) evidence of ongoing entrainment.

As required in NMFS biological opinion, RPA action IV.2.1, minimum Vernalis flows from April 1 through May 31 will be 3,000 cfs based on the New Melones Reservoir Index (page 642 of the June 2009, NMFS Biological Opinion). Vernalis flows will increase to 3,200 cfs for the VAMP period (April 22 through May 21) based on current projections. Combined pumping for the CVP and SWP will be 1,500 cfs during the 60-day implementation of the RPA action. The action is designed to protect emigrating steelhead smolts from the San Joaquin River Basin during the 60-day period of implementation.

The Working Group noted that the lack of larval delta smelt salvage so far this year and the results from the 20mm survey #2 and Smelt Larval Survey #6 indicate that the risk of entrainment of larval delta smelt is likely low. The Working Group also noted the significantly positive QWEST since April 1 and nearly positive daily value of OMR since April 2 also would suggest a low risk of entrainment to larval delta smelt. The Working Group agreed that -5,000 cfs OMR flow would be adequately protective for larval delta smelt for the next week.

Next Meeting: Monday, April 12, 2010 at 10 am

WEEKLY ADVICE FOR THE DEPARTMENT OF FISH AND GAME FOR LONGFIN SMELT

Advice for week of April 5, 2010:

The Smelt Working Group provides no advice for longfin smelt and believes that export restrictions and San Joaquin flows protective of emigrating juvenile steelhead will provide protection for longfin smelt.

Basis for advice:

The 2009 State Water Project 2081 for longfin smelt states that advice to the DFG Director shall be based on:

- 1. Adult Salvage total adult (>=80mm) longfin smelt expanded salvage (SWP+CVP) for December through February > 5 times the Fall Midwater Trawl longfin smelt annual abundance index.
- 2. Adult abundance, distribution or other information indicates that OMR flow advice is warranted.
- 3. Larva distribution in the Smelt Larva Survey or the 20mm Survey finds longfin smelt larvae present at 8 of 12 Central and South Delta sampling stations in 1 survey (809, 812, 815, 901, 902, 906, 910, 912, 914, 915, 918, 919).
- 4. Larva catch per tow exceeds 15 longfin smelt larvae or juveniles at 4 or more of the 12 survey stations listed.

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Current Information

No adult longfin smelt were salvaged in the past week and none have been salvaged since the December 1, 2009 criterion period for salvage began. Adult longfin smelt have only rarely been salvaged after mid-February.

No adult longfin smelt were collected upstream of the confluence by Bay Study in March.

The March 22-24 Smelt Larva Survey (survey 6), found longfin smelt larvae at 8 of 12 south and central Delta criteria stations (Table 1), an increase in frequency of occurrence of 2 stations from survey 5. All survey 6 longfin smelt were recently hatched, indicating a continued low hatch rate in the central and south Delta. Older longfin smelt larvae and juveniles were distributed downstream in Suisun Bay and Marsh. The 20mm Survey #1 (March 15-18) indicated the longfin smelt distribution centered in Suisun Bay (http://www.dfg.ca.gov/delta/data/20mm/CPUE Map3.asp). The second 20mm survey (Mar 29, 30, Apr 1), though only partially processed also caught limited numbers of longfin smelt larvae in the central and south Delta, and more and larger larvae in the lower Sacramento River and confluence area (Table 2). As of April 1 both SWP and CVP exports declined to <1,000 cfs each, while Sacramento River flow declined slightly and San Joaquin River flow increased to about 2,500 cfs (Figure 1). Delta outflow and Qwest both showed a strong positive jump on April 1 and a steady increase thereafter (Figure 1).

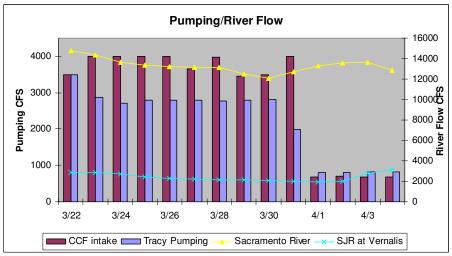
Near future conditions for longfin smelt should continue to be similarly favorable. As required in NMFS biological opinion, RPA action IV.2.1, minimum Vernalis flows from April 1 through May 31 will be 3,000 cfs based on the New Melones Reservoir Index (page 642 of the June 2009, NMFS Biological Opinion). Vernalis flows will increase to 3200 cfs for the VAMP period (April 22 through May 21) based on current projections. Combined pumping for the CVP and SWP will be 1,500 cfs during the 60-day implementation of the RPA action. The action is designed to protect emigrating steelhead smolts from the San Joaquin River Basin during the 60-day period of implementation.

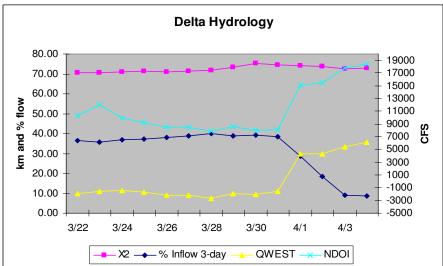
Discussion

The distribution information above was used to develop OMR flow advice. Although a few longfin smelt larvae were detected in the central and south Delta, currently reduced exports, a strong positive Qwest and increased net Delta outflow suggest that these larvae are likely to be transported west. Under current conditions the risk to entrainment for longfin smelt larvae is very low.

Figure 1. Sacramento and San Joaquin river flows (cfs) and Clifton Court intake and Tracy exports (cfs) (Top). Position of X2 (km), percent of inflow diverted, Qwest and net delta outflow (cfs) (Bottom).

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Table 1. Longfin smelt larva catch per station from Smelt Larva Survey sampling, survey 6 (March 22-25) processed through April 2, 2010. State Water Project ITP criteria stations are shaded.

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SWP ITP Criteria Stations

Processing as of 4/2/10.

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Table 2. Longfin smelt larvae catch per station from the 20 mm Survey sampling, survey 2 processed through April 2, 2010.

Year Survey Station Date Processed Species Catch Length Length					# Tows		Total	Min.	Max.
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2010	2010	2	602	29-Mar-10	0				
2010	2010	2	606	29-Mar-10	0				
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SWG advice 2/2/09 7/7